

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: BEAR POND	Lake Area (ha):	4.05
Town: CANAAN	Maximum depth (m):	---
County: Grafton	Mean depth (m):	---
River Basin: Connecticut	Volume (m ³):	---
Latitude: 43°39'33" N	Relative depth:	---
Longitude: 72°04'12" W	Shore configuration:	---
Elevation (ft): 869	Areal water load (m/yr):	---
Shore length (m): ---	Flushing rate (yr ⁻¹):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	natural

BIOLOGICAL:

June 2000

DOM. PHYTOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		
BACTERIA (E. coli, #/100 ml)	#1	
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):
Hypolimnion volume (m³):
Anoxic volume (m³):

CHEMICAL:Lake: BEAR POND
Town: CANAAN

	June 2000				
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY (μ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 2000

D.O. S.D. PLANT CHL TOTAL CLASS

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COMMENTS:

1. Bear Pond is considered to be inaccessible to sample.
2. We were unable to actually locate the pond. Locals said it did exist but there is no road or path to the pond. Bushwhacking is the only approach and the area is very inhospitable with piles of slash, blow-downs and extremely dense stands of new growth. As one nears the pond the ground becomes very wet and swampy.
3. The topographic map depicts an extensive wetland surrounding the pond.